

Program Completion Plan (Eight Semester Plan)

Department: _____ Physics and Astronomy _____ **Degree:** _____ BS _____
Program/Major: _____ Physics _____
Track/Emphasis: _____ Biological Physics _____
Does this program require a minor? (Yes/No) _____ No _____

Important program information in the online *Undergraduate Bulletin*:

UCA Core Requirements: <http://uca.edu/ubulletin2014/general-policies-information/uca-core/>
Degree Requirements: <http://uca.edu/ubulletin2014/general-policies-information/degree-requirements/>
Program Description: <http://uca.edu/ubulletin2014/colleges-departments-programs/college-of-natural-sciences-and-mathematics/department-of-physics-and-astronomy/>
Course Descriptions: <http://uca.edu/ubulletin2014/courses/>

This degree program requires a total of **120** semester credit hours, including at least **40** upper-division credit hours.

Comparable courses in the Arkansas Course Transfer System (ACTS) are cross-referenced in the ACTS column of each semester block below; a [core link](http://uca.edu/go/ubulletin2014-ldcore/) (<http://uca.edu/go/ubulletin2014-ldcore/>) takes the user to the *Undergraduate Bulletin's* UCA Core page, where UCA Core options and ACTS course numbers are listed in full; an [acts link](http://uca.edu/go/acts/) takes the user to the *Undergraduate Bulletin's* ACTS page (<http://uca.edu/go/acts/>) for additional information and a full UCA-ACTS crosswalk.

Year 1

Fall – Semester 1 (credit hours: **15**)¹

SUBJ	NUM	TITLE	SCH	ACTS
PHYS	1441	University Physics 1	4	PHYS2034
MATH	1496	Calculus I	4	MATH2405
BIOL	1440	Principles of Biology I	4	BIOL1014
WRTG	1310	Introduction to College Writing	3	ENGL1013

Spring – Semester 2 (credit hours: **15**)¹

SUBJ	NUM	TITLE	SCH	ACTS
PHYS	1442	University Physics 2	4	PHYS2044
MATH	1497	Calculus II	4	MATH2505
BIOL	1441	Principles of Biology II	4	
WRTG ENGL	1320 1320	Academic Writing and Research or Interdisciplinary Writing and Research or Other approved alternative	3	ENGL1023 ENGL1023

Year 2**Fall – Semester 3 (credit hours: 15)**

SUBJ	NUM	TITLE	SCH	ACTS
PHYS	2443	University Physics 3	4	
MATH	2471	Calculus III	4	MATH2603
CHEM	1450	College Chemistry I	4	CHEM1414
		Lower Division UCA Core Course ²	3	core link

Spring – Semester 4 (credit hours: 17)

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	1451	College Chemistry II	4	CHEM1424
BIOL	2490	Genetics	4	
		Lower Division UCA Core Course ²	3	core link
		Lower Division UCA Core Course ²	3	core link
		Lower Division UCA Core Course ²	3	core link

Year 3**Fall – Semester 5 (credit hours: 15)**

SUBJ	NUM	TITLE	SCH	ACTS
PHYS	3210	Experiments in Physics 1	2	
CHEM	2401	Organic Chemistry I	4	
WRITG	3310	Technical Writing	3	
MATH	4371	Introduction to Probability	3	
		Lower Division UCA Core Course ²	3	core link

Spring – Semester 6 (credit hours: 15)

SUBJ	NUM	TITLE	SCH	ACTS
PHYS	3220	Experiments in Physics 2	2	
PHYS	3343	Thermal Physics	3	
CHEM	3411	Organic Chemistry II	4	
		Lower Division UCA Core Course ²	3	core link
		Lower Division UCA Core Course ²	3	core link

Year 4**Fall – Semester 7 (Credit hours: 15)**

SUBJ	NUM	TITLE	SCH	ACTS
PHYS	4111	Senior Capstone 1	1	
BIOL	3402	Cell Biology	4	
		General Elective Course ³	3	
		General Elective Course ³	3	
		General Elective Course ³	3	
		General Elective Course ³	1	

Spring – Semester 8 (Credit hours: 13)

SUBJ	NUM	TITLE	SCH	ACTS
PHYS	4211	Senior Capstone 2	2	
PHYS	3345	Optics	3	
BIOL	44XX	Upper Division Biology Elective	4	
		General Elective Course ³	3	
		General Elective Course ³	1	

 SIGNED – DEPARTMENT CHAIR

 DATE

 SIGNED – COLLEGE DEAN

 DATE

To be completed by the advisor when an Eight-Semester Plan is accepted by the student:

If applicable, has student selected a minor? Type “x” as appropriate. _____ No _____ Yes

If “yes,” specify: _____

Notes

¹ Prior to completion of 30 semester hours, a student must complete a UCA Core course designated as a First-Year Seminar (FYS) in Critical Inquiry, Diversity, or Responsible Living.

² See appropriate choices, alternatives, or substitutions under "UCA Core" in the *Undergraduate Bulletin*. The student will also need to complete major, minor, or general elective courses designated as fulfilling the upper-division and capstone requirements of the UCA Core.

³ General elective courses must be selected so that a minimum of 40 hours of credit is earned at the 3000 level of above.